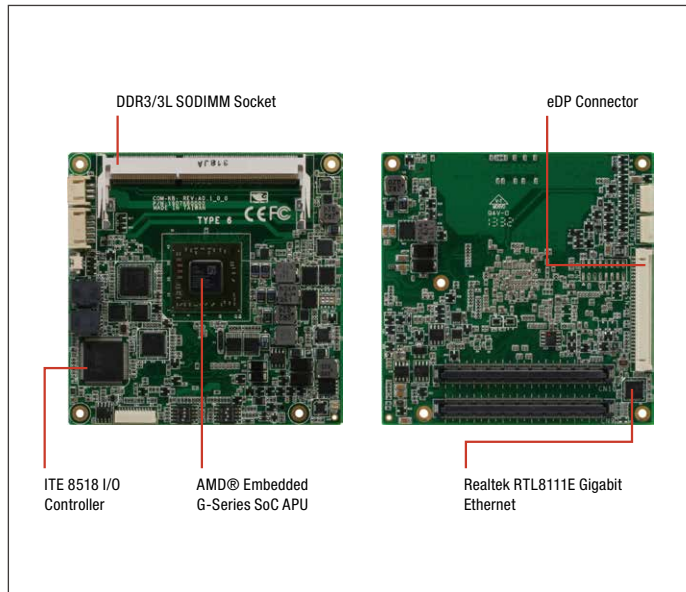


COM Express Type 6 with AMD® G-Series SoC APU



Specifications

System	
Form Factor	COM Express compact module, Pin-out type 6, COM. 0 Rev.2.1
CPU	AMD® Embedded G-Series SoC APU
CPU Frequency	Quad(2G), Dual (1.6G)
Chipset	AMD® Embedded G-Series SoC AMD GX-420CA SoC with AMD Radeon™ HD 8400E Graphics(Quad) GX-217GA SoC with AMD Radeon™ HD 8280E Graphics (Dual)
Memory Type	DDR3/DDR3L 1333/1600, SODIMM x 1
Max. Memory Capacity	8 GB
BIOS	AMI BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Nominal: +12V, Optional: +8.5V ~ +19V
Power Supply Type	AT/ATX
Power Consumption (Typical)	AMD GX-420CA 2.0GHz, 8GB memory, 100% load, 1.2A@12V
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
VGA/LCD Controller	AMD® eKabini integrated
Video Output	CRT, 24-bit dual channel LVDS (24 x 2), eDP/LVDS (18 x 1), DDI x 2
I/O	
Ethernet	Realtek® 8111E, Gigabit Ethernet
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.0 x 2
Serial Port	Tx/Rx x 2
Parallel Port	—
HDD Interface	SATA x 2
FDD Interface	—
SSD	—
Expansion Slot	PCI-Express [x1] x 5 LPC bus x 1 SMBus x 2 PCI-Express[x4] x 1 (PEG)
DIO	GPIO 8 bit
TPM	—

Features

- **AMD® Embedded G-Series SoC APU:**
 - AMD® GX-420CA Quad-core 2.0 GHz SoC with AMD Radeon™ HD 8400E Graphics
 - AMD® GX-217GA Dual-core 1.65 GHz SoC with AMD Radeon™ HD 8280E Graphics
- DDR3/DDR3L-1600 MHz SODIMM, Up to 8 GB
- Gigabit Ethernet x 1
- CRT, 24-bit Dual-Channel LVDS
- High Definition Audio Interface
- SATA x 2, USB3.0 x 2, USB2.0 x 8
- PCI-Express [x1] x 5
- COM Express Pin out Type 6
- Compact Module Size, 95mm x 95mm, COM.0 Rev. 2.0



Packing List

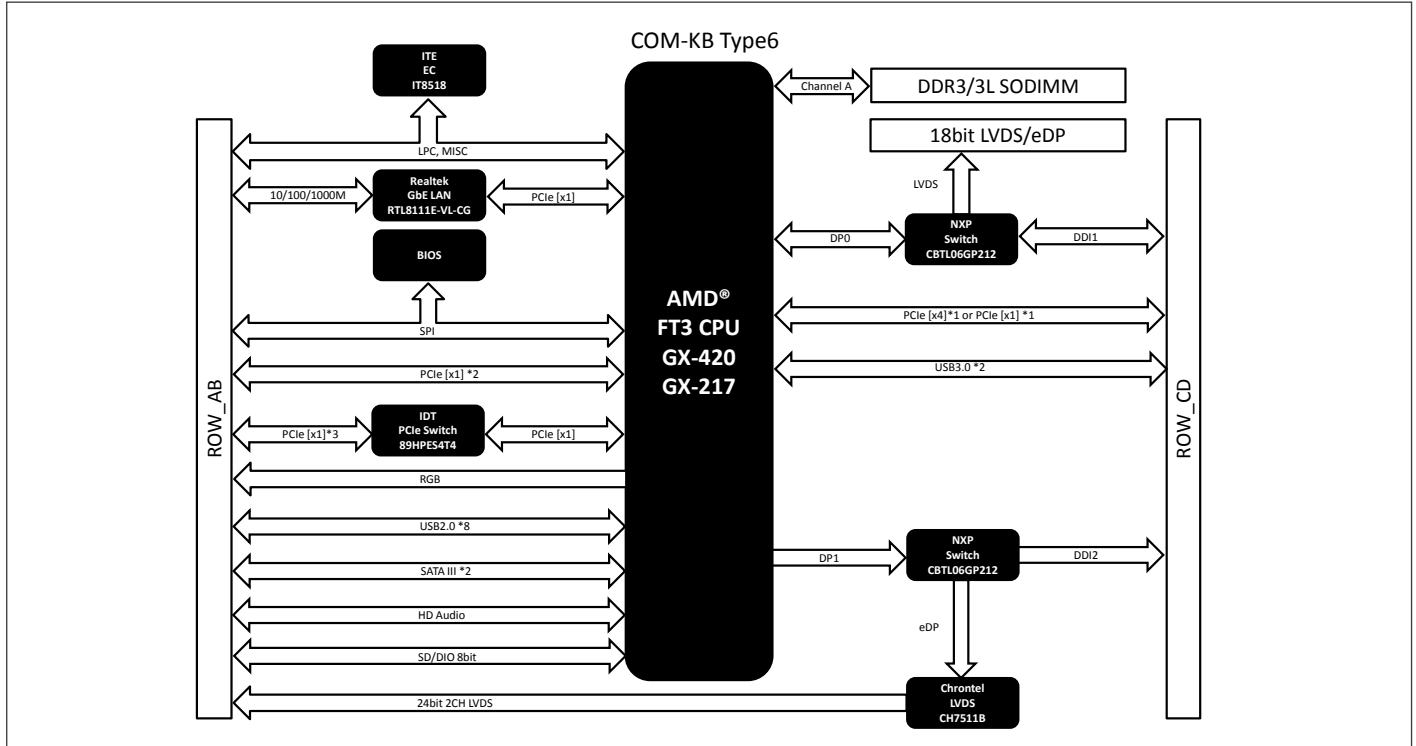
- M2.5 Screw x 5
- Product CD
- COM-KB

Optional Accessory

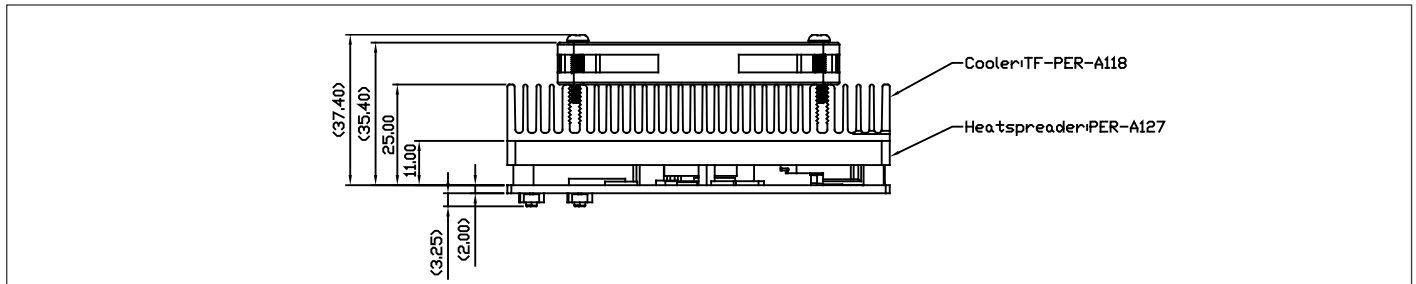
- **ECB-920A-A10-0001**
COM Express Type 1/6/10 Carrier Board, Gigabit Ethernet, USB, 2 COM, 4 SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0
- **TF-PER-A127**
Heat Spreader, For COM-KB
- **TF-PER-A118**
CPU Cooler, 35Watt, For COM Express Size, To be used with Heat Spreader

COM-KB

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	Fan/ Fan-less	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Temp.
COM-KB-A10-01	6 (COM.0 Rev. 2.0)	AMD GPU GX420CA-QC 2.0 GHz (25W)	DDR3/DDR3L-1600 MHz, up to 8 GB	Fan	VGA, DDI, LVDS, eDP	24b, 2 CH	SATA x 2	GbE x 1	USB3.0 x 2 USB2.0 x 8	2 (Tx/Rx)	PCI-E[x1] x 5, 1PEG x 4	12V	0°C - 60°C
COM-KB-A10-02	6 (COM.0 Rev. 2.0)	AMD GPU GX217GA-DC 1.65 GHz (15W)	DDR3/DDR3L-1600 MHz, up to 8GB	Fan	VGA, DDI, LVDS, eDP	24b, 2 CH	SATA x 2	GbE x 1	USB3.0 x 2 USB2.0 x 8	2 (Tx/Rx)	PCI-E[x1] x 5, 1PEG x 4	12V	0°C - 60°C